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BOUCHEZ MATTHIAS
MABILON GIL
MARTIN BRIGITTE**

**(54) DECREASING METHOD OF THE DISCHARGE
QUANTITY OF NITROGEN OXIDES IN
STOICHIOMETRIC EXCESS MEDIUM BY
OXIDIZING AGENT**

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a removing method of nitrogen oxides (NO and NO₂ called NO_x) in a stoichiometric excess medium by an oxidizing agent.

SOLUTION: As for the decreasing/removing method, an oxidation process (a) for at least a part of nitrogen oxides in the presence of an oxidizing agent, an injection process (b) for an organic compound containing at least one selected from carbon, hydrogen, oxygen and nitrogen, an adsorption process (c) for the organic compound in

a form of at least a part of molecular species and/or a carbon residual material on an adsorptive material and a selective reduction process (d) for at least one of nitrogen oxides into molecular nitrogen by at least a part of the molecular species and/or the carbon residual material formed on the adsorptive material are included. As a result, the reduction of nitrogen oxides is performed with high conversion rate at a temp. equal to or below the temp. necessary for a conventional catalyst prepared by the exchange of a transition metal or a noble metal, particularly copper or gold on zeolite, with nitrogen yield being improved compared to the catalyst prepared using a noble metal as a base on various carrier.

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